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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/723,469	11/26/2003	John P. Karidis	ARC920030084US1	7647

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EXAMINER
GEBRESILASSIE, KIBROM K

ART UNIT	PAPER NUMBER
2128	

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01/24/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)
Office Action Summary		10/723,469	KARIDIS ET AL.
		Examiner	Art Unit
		Kibrom K. Gebresilassie	2128

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>28 November 2007</u>.

2a)☒ This action is **FINAL**.   2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>1-22</u> is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) <u>1-22</u> is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.

5)☐ Notice of Informal Patent Application

6)☐ Other: _____.

U.S. Patent and Trademark Office

PTOL-326 (Rev. 08-06)   Office Action Summary   Part of Paper No./Mail Date 20080111

DETAILED ACTION

1.   This communication is responsive to amended application filed on 11/28/2007.

2.   Claims 1-22 are presented for examination.

Response to Arguments

3.   Applicants arguments, filed on 11/28/2007, have been fully considered, but they are not persuasive.

4.   Applicant's arguments relating to the art rejections are not persuasive.

Applicants argued:

> the claimed invention. However, Applicants submit that the number of "points of contact" of Kushler (which the Office Action asserts teaches the "keystroke landing points" of the claimed invention) does not equal the number of letters in the word determined. Instead, the number of letters in the word determined by the system of Kushler can be greater than or less than the number of "points of contact". Therefore, as

In response applicants admitted that Kushler et al discloses the point of contact greater than or less than the number of letters in the word. Further, Kushler et al also discloses the point of contact <u>equal to</u> the number of letters in the word as claimed invention as shown in the figure below:
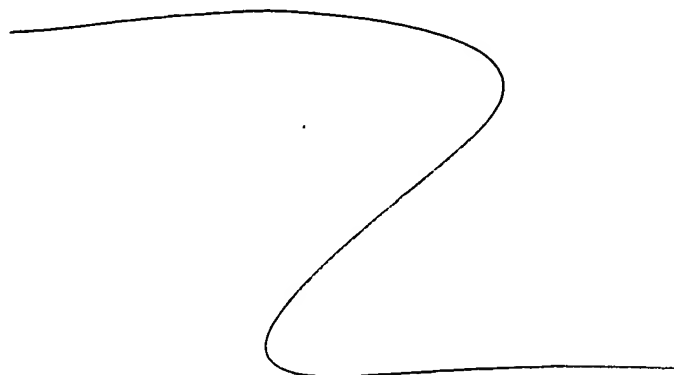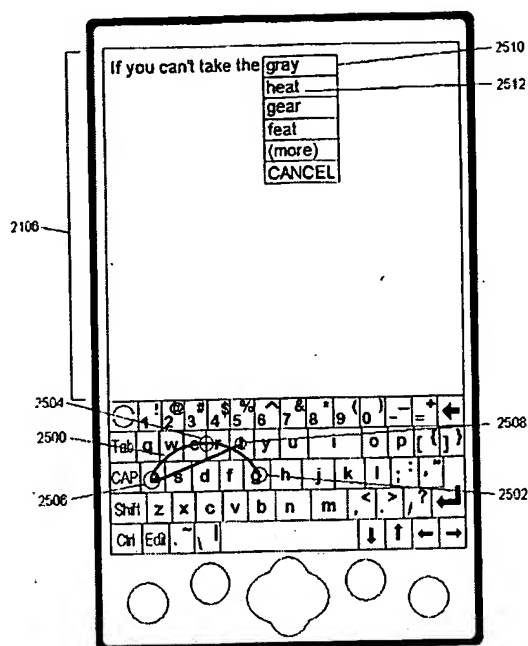
Figure 2E

As shown in the figure above, the input pattern 2500 has <u>four</u> "point of contacts" such as 2502, 2504, 2506 and 2508, and has <u>four</u> number of letters in the word such as the words g-r-a-y as claimed invention.

Claim Rejections - 35 USC § 102

5.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6.   Claims 1-22 are rejected under 35 U.S.C. 102(e) as being anticipated by Publication No. 2004/0140956 A1 issued to Kushler et al.

As per Claim 1:

Kushler discloses a method of relaxing typing accuracy on a computer keyboard comprising alphanumeric keys and a spacebar key, said method comprising:

recording a coordinate of a landing point corresponding to a sequence of tapped keys on said computer keyboard (**See: [0029] lines 1-7, [0030] lines 7-16. and [0032] lines 1-6**);

counting a total number of landing points tapped only after verification that said spacebar key has been tapped during said sequence (**See: [0029]**);

comparing a geometric pattern formed by an inputted sequence of said landing points to a pattern formed by lexical entry of sequences, wherein said lexical entry of sequences comprises a subset of sequences comprising sequences having an amount of letters equaling said total number (such as *pattern matching...*; **See: [0029], [0044]**);

calculating a distance between said geometric pattern and the pattern formed by letters corresponding to said lexical entry of sequences (**See: [0042],[0057]**); and

determining a word by selecting a shortest distance between said inputted sequence of said landing points and letters corresponding to said lexical entry of sequences (**See: [0048]**), wherein said total number of keystroke landing points tapped equals a total number of letters in said words (**See: Fig. 2B, 2D, 2E, and corresponding texts**); and

using the determined word to check a correct spelling of a tapped word entry

corresponding to said inputted sequence of said landing points (**See: [0049]**).

As per Claim 2:

Kushler discloses the method of claim 1, wherein said distance is a mean

distance of all inputted sequence of points (**See: [0042] lines 1-10**).

As per Claim 3:

Kushler discloses the method of claim 1, wherein said distance is an elastic

matching distance between said inputted sequence of points and said lexical entry of

sequences (such as *...dynamic programming...*; **See: [0048]**).

As per Claim 4:

Kushler discloses the method of claim 3, further comprising normalizing said

elastic matching distance by an amount of letters in said word (**See: [0046]**).

As per Claim 5:

Kushler discloses the method of claim 1, further comprising comparing said

shortest total distance to a predetermined threshold distance (**See: [0064]**).

As per Claim 6:

Kushler discloses the method of claim 5, further comprising outputting said word

if said shortest total distance is smaller than said predetermined threshold distance

(**See: [0035]**).

As per Claim 7:

Kushler discloses the method of claim 5, further comprising outputting letters

tapped if said shortest total distance is greater than said predetermined threshold

distance (**See: [0035]**).

As per claim 8:

Kushler discloses a method of relaxing typing accuracy on a computer keyboard comprising alphanumeric keys and a spacebar key, said method comprising:

recording a coordinate of at least one keystroke landing point, wherein said keystroke emanates from tapping a key on a keyboard (**See: [0029] lines 1-7, [0030] lines 7-16. and [0032] lines 1-6**);

counting a total amount of tapped landing points only after verification that said spacebar key has been tapped during an inputted sequence of tapped landing points (**See: [0029]**);

creating a set of words from a lexicon having a same number of said tapped landing points (**See: [0040], [0041]**);

for each letter in each word in said set, computing a distance from said coordinate to a central position of said key corresponding to said letter (**See: [0063]**);

summing a total distance for each word (**See: [0042]**); and

selecting a word from said set having a shortest total distance to said coordinate (**See: [0048]**), wherein said total number of keystroke landing points tapped equals a total number of letters in said words (**See: Fig. 2B, 2D, 2E, and corresponding texts**); and

using the selected word to check a correct spelling of a tapped word entry corresponding to said inputted sequence of tapped landing points (**See: [0049]**).

As per Claim 9:

Kushler discloses the method of claim 8, wherein said distance is a mean

distance of all said tapped landing points for each word (**See: [0042]**).

As per Claim 10:

Kushler discloses the method of claim 8, wherein said distance is an elastic

matching distance between said tapped landing points and said coordinate (such as

...*dynamic programming...*; **See: [0048]**).

As per claims 11-22:

The limitations of claims 11-22 have already been discussed in the rejection of

claims 1-7. The instant claims are functionally equivalent to the above rejected claims

and are therefore rejected under the same rationale.

Conclusion

7.   All claims are rejected.

Examiner Remarks

8.   Examiner's Note: **Examiner has cited particular columns and line numbers in

the references applied to the claims above for the convenience of the applicant.**

Although the specified citations are representative of the teachings of the art and are

applied to specific limitations within the individual claim, other passages and figures

may apply as well. **It is respectfully requested from the applicant in preparing

responses, to fully consider the references in their entirety as potentially teaching

all or part of the claimed invention, as well as the context of the passage as

taught by the prior art or disclosed by the Examiner.**

Examiner Request

9.   **In the case of amending the claimed invention, Applicant is respectfully**

requested to indicate the portion(s) of the specification which dictate(s) the

structure relied on for proper interpretation and also to verify and ascertain the metes

and bounds of the claimed invention.

> **MPEP states:**
>
> "...with respect to newly added or amended claims, applicant
> should show support in the original disclosure for the new
> or amended claims. See MPEP § 714.02 and § 2163.06."

10.   Applicant's amendment necessitated the new ground(s) of rejection presented in

this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37

CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kibrom K. Gebresilassie whose telephone number is

571-272-8571. The examiner can normally be reached on 8:00 am - 4:30 pm Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamini Shah can be reached on 571-272-2279. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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